CASON

Tripoli DW 4300 UE

WIRELESS DATA ACQUISITION FROM UTILITY METERS FOR HOUSEHOLDS

The DW 4300 UE is an independent industrial wireless network endpoint used for collecting and forwarding data from utility meters. The device can be installed directly to the utility meters without the need of any additional fittings.
The device is completely autonomous. The use of Zig-C technology means that communication is wireless and power consumption is so low that the internal batteries will last for more than 5 years.
Based on the configuration, the device then constantly monitors the consumption as measured by the meter and transmits that data to the central database.
Monitoring of the utility meters is practically continuous, so the system is fully suited to the strict requirements of the liberalized market and appropriate to minimize losses on last miles. The hourly (or 15 min) and daily peaks and consumption habits can be analyzed to make trends and prognostic evaluations.
By using the wireless data collection solution the household consumer usage can now be integrated into the central Energy Management or Balance Systems of modern distributors.
CASON's DIWICON-U system offers optimal solution to reduce losses on last miles and to improve the quality of the service. altitude and quick location time are critical.

BENEFITS

- Communication wires are unnecessary
- Nodes are installed directly to the utility meters
- Installation of system elements is fast and simple
- Maintenance free operation

FEATURES

- Wireless communication based on 802.15.4 standard
- Data reading from the pulse output of the utility meter
- High capacity, long-life internal batteries
- Remote configuring and software update

TECHNICAL DATA

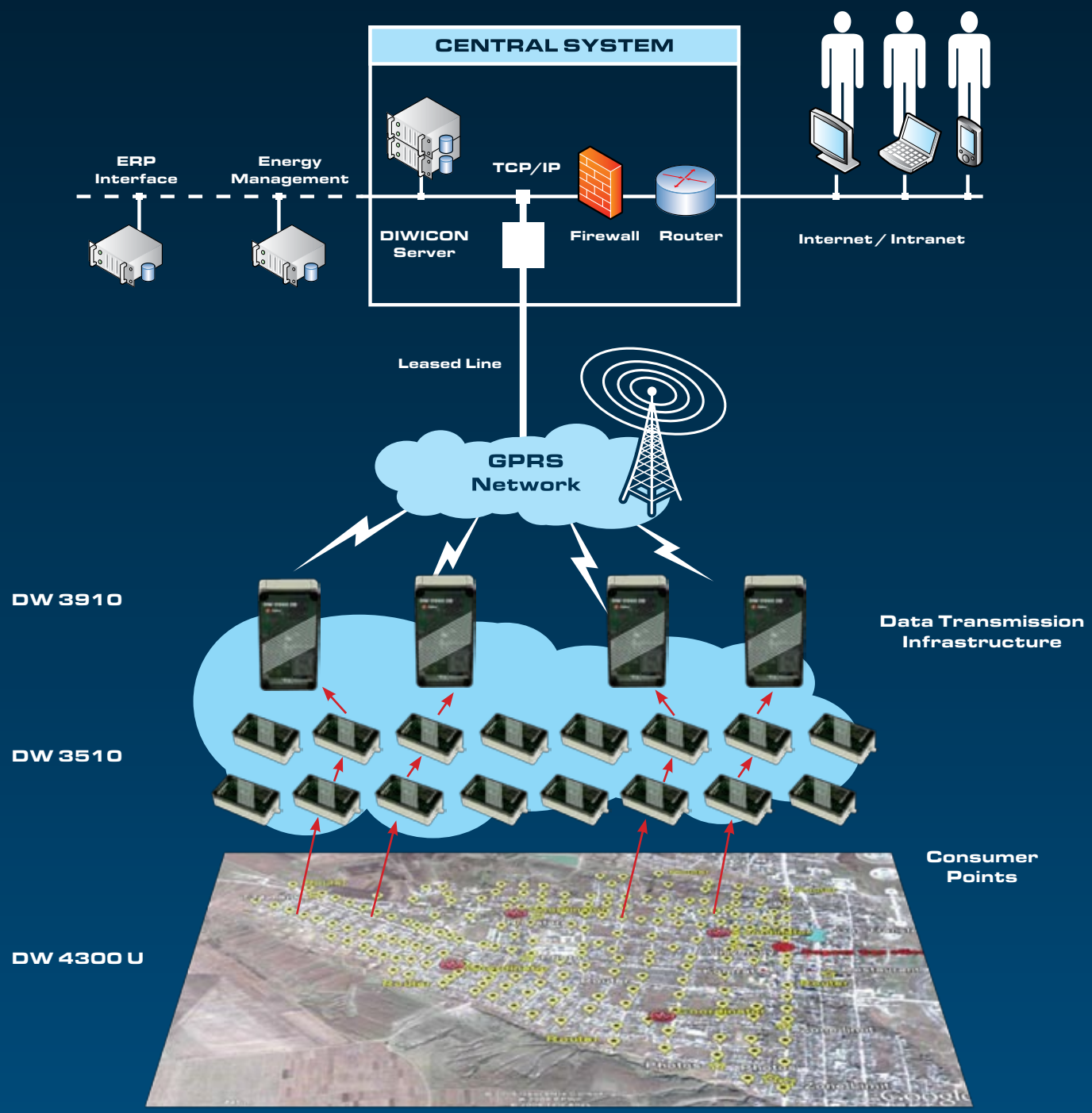
Internal power:	1 db 3.6 V DC Li Ion battery
Operational temp. range:	- 20°C to +60°C
Storage temp.range:	- 40°C to +80°C
Relative humidity:	5% to 95% (non condensed)
Dimensions (L x W x H):	100 x 40 x 20 mm

RF MODEM FEATURES

- IEEE 802.15.4 accordance, 250 kbps data transfer speed
- 16 channels in 2.4 GHz ISM frequency range
- 100 mW output power
- Receiver sensitivity < -92 dBm 1% PER

APPLICATIONS

The compact design enables to use it for different kinds of applications and for different types of utility meters. The modular structure offers to setup flexible data collecting system for large areas even in several steps.



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